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ACCESS DB # 160348  
PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: MARK BERCH Examiner #: 59193 Date: 2/25/05  
Art Unit: 1624 Phone Number: 2-0663 Serial Number: 10688588  
Location (Bldg/Room#): 5C01 (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Date: \_\_\_\_\_

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional; or issued patent numbers) along with the appropriate serial number.

Process of removing ethanol/  
methanol  
propanol  
isopropanol  
from something, e.g. a drug  
by ~~passing~~ treatment with humid gas of  
some type or humid air

STAFF USE ONLY

Searcher: \_\_\_\_\_

Searcher Phone #: \_\_\_\_\_

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: \_\_\_\_\_

Date Completed: \_\_\_\_\_

Searcher Prep & Review Time: \_\_\_\_\_

Online Time: \_\_\_\_\_

Type of Search

\_\_\_\_ NA Sequence (#)

\_\_\_\_ AA Sequence (#)

\_\_\_\_ Structure (#)

\_\_\_\_ Bibliographic

\_\_\_\_ Litigation

\_\_\_\_ Fulltext

\_\_\_\_ Other

Vendors and cost where applicable

\_\_\_\_ STN \_\_\_\_\_ Dialog

\_\_\_\_ Questel/Orbit \_\_\_\_\_ Lexis/Nexis

\_\_\_\_ Westlaw \_\_\_\_\_ WWW/Internet

\_\_\_\_ In-house sequence systems

\_\_\_\_ Commercial \_\_\_\_\_ Oligomer \_\_\_\_\_ Score/Length  
\_\_\_\_ Interference \_\_\_\_\_ SPDI \_\_\_\_\_ Encode/Transl  
\_\_\_\_ Other (specify)

=&gt; d que 158

L3 1261035 SEA FILE=HCAPLUS ABB=ON PLU=ON ALCOHOLS+PFT,NT1/CT  
 L4 8982 SEA FILE=HCAPLUS ABB=ON PLU=ON L3 (L) REM/RL  
 L5 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR  
 METHANOL OR PROPANOL OR ISOPROPANOL  
 L12 QUE ABB=ON PLU=ON AIR OR GAS OR MIST OR VAPOR  
 L15 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?  
 L40 92 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 (L) ?CRYSTAL?  
 L41 45 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND (TOXICOLOGY OR  
 RADIATION OR "AMINO ACIDS" OR BIOMOLECULES OR BENZENOID OR  
 HETEROCYCLIC OR PHARM? OR "UNIT OPERATIONS" OR TERPENES OR  
 PLASTICS)/SC  
 L42 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND (IOHEXOL OR CAROTENOID  
 )/TI  
 L43 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND UNIT/SC  
 L44 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND AMINO/SC  
 L45 56 SEA FILE=HCAPLUS ABB=ON PLU=ON (L41 OR L42 OR L43 OR L44)  
 L46 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND DRYING/CT  
 L48 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L46 AND L12  
 L49 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L48 AND PHARM?/SC  
 L50 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND (L15 OR (WATER(1W) VAPOR))  
 L51 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L50 NOT L48  
 L54 154 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 (1W) DISPLAC?  
 L55 186 SEA FILE=HCAPLUS ABB=ON PLU=ON DISPLAC? (2W) L5  
 L56 9 SEA FILE=HCAPLUS ABB=ON PLU=ON ((L54 OR L55)) (5A) (L12 OR  
 L15)  
 L57 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L56 AND (EXPLOSIVES OR  
 COATINGS)/SC  
 L58 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 OR L51 OR L57

=&gt; d que 168

L59 19238 SEA FILE=WPIX ABB=ON PLU=ON (B01D001? OR B01D012? OR  
 F26B003? OR F26B005?)/IPC  
 L60 11596 SEA FILE=WPIX ABB=ON PLU=ON (?ALCOHOL?/BIX OR ?ALKANOL?/BIX  
 OR ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/BIX  
 IX) (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX  
 L63 501 SEA FILE=WPIX ABB=ON PLU=ON L60 (7A) ((AIR/BIX OR GAS/BIX OR  
 MIST/BIX OR VAPOR/BIX) OR WET/BIX OR (WATER(1W) (VAPOR OR  
 VAPOUR))/BIX)  
 L64 6 SEA FILE=WPIX ABB=ON PLU=ON L59 AND L63  
 L65 1 SEA FILE=WPIX ABB=ON PLU=ON L64 AND (DRIED(1W) FOOD)/TI  
 L66 10 SEA FILE=WPIX ABB=ON PLU=ON L63 (10A) ?CRYSTAL?/BIX  
 L67 2 SEA FILE=WPIX ABB=ON PLU=ON L66 AND (DISTANNOXANE OR  
 CEFAMANDOLE)/TI  
 L68 3 SEA FILE=WPIX ABB=ON PLU=ON L65 OR L67

=&gt; d his 174

(FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,  
 SCISEARCH' ENTERED AT 16:11:14 ON 18 AUG 2005)

L74 2 S L72 AND L73  
 SAVE TEMP L74 BER538MUL1/A

FILE 'STNGUIDE' ENTERED AT 16:19:47 ON 18 AUG 2005

=&gt; d que 174

L5 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR

METHANOL OR PROPANOL OR ISOPROPANOL  
 L15 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?  
 L69 1114 SEA L5 (1W) (REMOV? OR DISPLAC?)  
 L70 1340 SEA (REMOV? OR DISPLAC?) (2W) L5  
 L71 44 SEA (L69 OR L70) (7A) (L15 OR AIR OR (WATER (1W) (VAPOR OR  
 VAPOUR)) OR STEAM)  
 L72 23 DUP REM L71 (21 DUPLICATES REMOVED)  
 L73 3 SEA L71 (15A) (POWDER OR SOLID OR GRAIN? OR ?GRANUL? OR  
 ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)  
 L74 2 SEA L72 AND L73

=> d his ful

(FILE 'HOME' ENTERED AT 13:02:30 ON 18 AUG 2005)

FILE 'HCAPLUS' ENTERED AT 13:02:42 ON 18 AUG 2005  
 L1 1 SEA ABB=ON PLU=ON US2003-688538/APPS  
 SAVE TEMP L1 BER538HCAAPP/A  
 D IBIB ED AB IND

FILE 'STNGUIDE' ENTERED AT 13:03:28 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 13:04:49 ON 18 AUG 2005  
 L2 1 SEA ABB=ON PLU=ON US2003-688538/APPS  
 SAVE TEMP L2 BER538WPIAPP/A  
 D IALL

FILE 'STNGUIDE' ENTERED AT 13:05:17 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:07:45 ON 18 AUG 2005  
 L3 1261035 SEA ABB=ON PLU=ON ALCOHOLS+PFT,NT1/CT  
 L4 8982 SEA ABB=ON PLU=ON L3 (L) REM/RL

FILE 'STNGUIDE' ENTERED AT 13:08:57 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:11:02 ON 18 AUG 2005  
 L5 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR  
 METHANOL OR PROPANOL OR ISOPROPANOL  
 L6 QUE ABB=ON PLU=ON ETHANOL OR METHANOL OR PROPANOL OR  
 ISOPROPANOL  
 L7 QUE ABB=ON PLU=ON ?HUMID? OR ?MOIST? OR DAMP?  
 L8 QUE ABB=ON PLU=ON AIR OR GAS OR MIST

FILE 'STNGUIDE' ENTERED AT 13:12:08 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:12:57 ON 18 AUG 2005  
 L9 49166 SEA ABB=ON PLU=ON AIR+PFT/CT  
 L10 613 SEA ABB=ON PLU=ON L9 (L) L7  
 L11 4 SEA ABB=ON PLU=ON L10 (L) L5  
 L12 QUE ABB=ON PLU=ON AIR OR GAS OR MIST OR VAPOR  
 L13 725 SEA ABB=ON PLU=ON L9 (L) L5  
 L14 4 SEA ABB=ON PLU=ON L10 AND L13  
 D SCAN

FILE 'STNGUIDE' ENTERED AT 13:14:47 ON 18 AUG 2005  
 D QUE L7

FILE 'HCAPLUS' ENTERED AT 13:16:03 ON 18 AUG 2005  
 L15 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?

L16 QUE ABB=ON PLU=ON REMOV? OR REDUCE OR REDUCING OR REDUCTION  
L17 35270 SEA ABB=ON PLU=ON L5 (5A) L16  
L18 17073 SEA ABB=ON PLU=ON L5 (5A) REMOV?  
L19 13270 SEA ABB=ON PLU=ON L5 (3A) REMOV?

FILE 'STNGUIDE' ENTERED AT 13:18:13 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:19:00 ON 18 AUG 2005  
L20 16859 SEA ABB=ON PLU=ON HUMIDITY+PFT/CT  
L21 105 SEA ABB=ON PLU=ON L20 (L) L5

FILE 'STNGUIDE' ENTERED AT 13:19:46 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:20:24 ON 18 AUG 2005  
L22 560 SEA ABB=ON PLU=ON L9 (L) L15  
L23 7 SEA ABB=ON PLU=ON (L4 OR L19) AND (L21 OR L22)  
D SCAN

FILE 'STNGUIDE' ENTERED AT 13:20:55 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:23:28 ON 18 AUG 2005  
L24 5 SEA ABB=ON PLU=ON L23 NOT (BIOREACTOR OR COMPOST)/TI

FILE 'STNGUIDE' ENTERED AT 13:23:48 ON 18 AUG 2005  
D QUE L22  
D QUE L21  
D QUE L19

FILE 'HCAPLUS' ENTERED AT 13:24:56 ON 18 AUG 2005  
L25 999 SEA ABB=ON PLU=ON L19 (7A) (L15 OR L12)

FILE 'STNGUIDE' ENTERED AT 13:26:09 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:28:33 ON 18 AUG 2005  
L26 8971 SEA ABB=ON PLU=ON L5 (1W) L16  
L27 5404 SEA ABB=ON PLU=ON L5 (1W) REMOV?  
L\*\*\* DEL 624 S REMOV? (2W) L  
L28 4491 SEA ABB=ON PLU=ON REMOV? (2W) L5  
L29 582 SEA ABB=ON PLU=ON (L27 OR L28) (5A) (L15 OR L12)  
L30 8 SEA ABB=ON PLU=ON L29 AND PHARM?/SX,SC  
D SCAN

FILE 'STNGUIDE' ENTERED AT 13:31:38 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:32:16 ON 18 AUG 2005  
L31 29 SEA ABB=ON PLU=ON (L27 OR L28) (5A) L15  
D SCAN

FILE 'STNGUIDE' ENTERED AT 13:32:47 ON 18 AUG 2005  
L\*\*\* DEL 0 S L24 AND L31

FILE 'HCAPLUS' ENTERED AT 13:35:09 ON 18 AUG 2005  
L32 2 SEA ABB=ON PLU=ON L24 AND L31  
D SCAN

FILE 'STNGUIDE' ENTERED AT 13:35:28 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:35:40 ON 18 AUG 2005  
D KWIC L24 1-5

FILE 'STNGUIDE' ENTERED AT 13:36:03 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 13:37:07 ON 18 AUG 2005  
SAVE TEMP L24 BER538HCA1/A

FILE 'STNGUIDE' ENTERED AT 13:37:21 ON 18 AUG 2005  
D SAVED

FILE 'ZCAPLUS' ENTERED AT 13:40:26 ON 18 AUG 2005  
E CRYSTAL/CT  
E CRYSTALS/CT  
E E15+ALL  
E SOLVENTS/CT  
E E68+ALL  
E E87+ALL  
E E102+ALL  
E E114+ALL

FILE 'HCAPLUS' ENTERED AT 13:43:57 ON 18 AUG 2005  
L33 543 SEA ABB=ON PLU=ON DESOLVATION+PFT/CT  
L34 19566 SEA ABB=ON PLU=ON EVAPORATION+PFT/CT  
L35 28702 SEA ABB=ON PLU=ON VAPORIZATION+PFT/CT

FILE 'ZCAPLUS' ENTERED AT 13:44:44 ON 18 AUG 2005  
E VAPORIZATION/CT  
E E147+ALL

FILE 'HCAPLUS' ENTERED AT 13:45:06 ON 18 AUG 2005  
L36 0 SEA ABB=ON PLU=ON ALBATION+PFT/CT  
L37 271 SEA ABB=ON PLU=ON (L33 OR L34 OR L35 OR L36) (L) L5  
L38 131 SEA ABB=ON PLU=ON (L33 OR L34 OR L35 OR L36) (L) L15  
L39 2 SEA ABB=ON PLU=ON L37 AND L38  
D SCAN  
D QUE L4  
L40 92 SEA ABB=ON PLU=ON L4 (L) ?CRYSTAL?  
D SCAN

FILE 'STNGUIDE' ENTERED AT 13:49:42 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 14:42:55 ON 18 AUG 2005  
L41 45 SEA ABB=ON PLU=ON L40 AND (TOXICOLOGY OR RADIATION OR "AMINO  
ACIDS" OR BIOMOLECULES OR BENZENOID OR HETEROCYCLIC OR PHARM?  
OR "UNIT OPERATIONS" OR TERPENES OR PLASTICS)/SC  
L42 4 SEA ABB=ON PLU=ON L40 AND (IOHEXOL OR CAROTENOID)/TI  
L43 7 SEA ABB=ON PLU=ON L40 AND UNIT/SC  
L44 2 SEA ABB=ON PLU=ON L40 AND AMINO/SC  
L45 56 SEA ABB=ON PLU=ON (L41 OR L42 OR L43 OR L44)  
SAVE TEMP L45 BER538HCAP2/A

FILE 'STNGUIDE' ENTERED AT 14:44:49 ON 18 AUG 2005  
D SAVED

FILE 'HCAPLUS' ENTERED AT 14:49:47 ON 18 AUG 2005  
L46 10 SEA ABB=ON PLU=ON L45 AND DRYING/CT  
D SCAN  
L47 0 SEA ABB=ON PLU=ON L46 AND L15  
L48 2 SEA ABB=ON PLU=ON L46 AND L12  
D SCAN  
D KWIC 1-2  
L49 1 SEA ABB=ON PLU=ON L48 AND PHARM?/SC

L50 6 SEA ABB=ON PLU=ON L45 AND (L15 OR (WATER(1W)VAPOR))  
L51 4 SEA ABB=ON PLU=ON L50 NOT L48  
D SCAN

FILE 'STNGUIDE' ENTERED AT 14:53:37 ON 18 AUG 2005  
D QUE L51

FILE 'HCAPLUS' ENTERED AT 15:35:10 ON 18 AUG 2005  
D KWIC L51 1-4

FILE 'STNGUIDE' ENTERED AT 15:35:10 ON 18 AUG 2005

FILE 'STNGUIDE' ENTERED AT 15:35:15 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 15:35:53 ON 18 AUG 2005  
L52 511 SEA ABB=ON PLU=ON L5 (3A) DISPLAC?  
L53 15 SEA ABB=ON PLU=ON L52 (5A) (L12 OR L15)  
D SCAN TI HIT

FILE 'STNGUIDE' ENTERED AT 15:37:30 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 15:38:12 ON 18 AUG 2005  
L54 154 SEA ABB=ON PLU=ON L5 (1W) DISPLAC?  
L55 186 SEA ABB=ON PLU=ON DISPLAC? (2W) L5  
L56 9 SEA ABB=ON PLU=ON ((L54 OR L55)) (5A) (L12 OR L15)  
D SCAN

FILE 'STNGUIDE' ENTERED AT 15:39:49 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 15:40:42 ON 18 AUG 2005  
L57 2 SEA ABB=ON PLU=ON L56 AND (EXPLOSIVES OR COATINGS)/SC  
D KWIC 1-2

FILE 'STNGUIDE' ENTERED AT 15:41:02 ON 18 AUG 2005

FILE 'HCAPLUS' ENTERED AT 15:41:26 ON 18 AUG 2005  
L58 7 SEA ABB=ON PLU=ON L49 OR L51 OR L57  
SAVE TEMP L58 BER538HCAK1/A

FILE 'STNGUIDE' ENTERED AT 15:42:03 ON 18 AUG 2005  
D SAVED  
D SAVED  
D COST

FILE 'HCAPLUS' ENTERED AT 15:45:16 ON 18 AUG 2005  
D SCAN L58

FILE 'STNGUIDE' ENTERED AT 15:45:32 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 15:50:43 ON 18 AUG 2005  
L59 19238 SEA ABB=ON PLU=ON (B01D001? OR B01D012? OR F26B003? OR  
F26B005?)/IPC  
L60 11596 SEA ABB=ON PLU=ON (?ALCOHOL?/BIX OR ?ALKANOL?/BIX OR  
ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/BIX)  
(3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX  
L61 7924 SEA ABB=ON PLU=ON L60 (7A) ((AIR/BIX OR GAS/BIX OR MIST/BIX  
OR VAPOR/BIX) OR (REMOV?/BIX OR REDUCE/BIX OR REDUCING/BIX OR  
REDUCTION/BIX))  
L62 40 SEA ABB=ON PLU=ON L61 AND L59  
D TRI 1-40

FILE 'STNGUIDE' ENTERED AT 15:54:30 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 15:55:22 ON 18 AUG 2005  
L63 501 SEA ABB=ON PLU=ON L60 (7A) ((AIR/BIX OR GAS/BIX OR MIST/BIX  
OR VAPOR/BIX) OR WET/BIX OR (WATER(1W) (VAPOR OR VAPOUR))/BIX)  
L64 6 SEA ABB=ON PLU=ON L59 AND L63  
D TRI 1-6

FILE 'STNGUIDE' ENTERED AT 15:57:32 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 15:58:20 ON 18 AUG 2005  
D KWIC 1-6

FILE 'STNGUIDE' ENTERED AT 15:58:23 ON 18 AUG 2005

FILE 'STNGUIDE' ENTERED AT 15:58:26 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 16:01:06 ON 18 AUG 2005  
L65 1 SEA ABB=ON PLU=ON L64 AND (DRIED(1W)FOOD)/TI

FILE 'STNGUIDE' ENTERED AT 16:01:46 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 16:02:15 ON 18 AUG 2005  
D MC L65

FILE 'STNGUIDE' ENTERED AT 16:02:16 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 16:02:53 ON 18 AUG 2005  
L66 10 SEA ABB=ON PLU=ON L63 (10A) ?CRYSTAL?/BIX  
D TRI 1-10

FILE 'STNGUIDE' ENTERED AT 16:03:50 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 16:06:36 ON 18 AUG 2005  
D KWIC L66 2,4,7,9,10

FILE 'STNGUIDE' ENTERED AT 16:06:37 ON 18 AUG 2005

FILE 'WPIX' ENTERED AT 16:08:09 ON 18 AUG 2005  
D TRI 4,10  
L67 2 SEA ABB=ON PLU=ON L66 AND (DISTANNOXANE OR CEFAMANDOLE)/TI  
L68 3 SEA ABB=ON PLU=ON L65 OR L67  
SAVE TEMP L68 BER538WPIK1/A

FILE 'STNGUIDE' ENTERED AT 16:09:40 ON 18 AUG 2005  
D SAVED

FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,  
SCISEARCH' ENTERED AT 16:11:14 ON 18 AUG 2005  
L69 1114 SEA ABB=ON PLU=ON L5 (1W) (REMOV? OR DISPLAC?)  
L70 1340 SEA ABB=ON PLU=ON (REMOV? OR DISPLAC?) (2W) L5  
L71 44 SEA ABB=ON PLU=ON (L69 OR L70) (7A) (L15 OR AIR OR (WATER  
(1W) (VAPOR OR VAPOUR)) OR STEAM)  
L72 23 DUP REM L71 (21 DUPLICATES REMOVED)  
ANSWERS '1-5' FROM FILE MEDLINE  
ANSWERS '6-10' FROM FILE BIOSIS  
ANSWERS '11-16' FROM FILE PASCAL  
ANSWERS '17-19' FROM FILE JICST-EPLUS  
ANSWERS '20-23' FROM FILE SCISEARCH

L73 D SCAN  
3 SEA ABB=ON PLU=ON L71 (15A) (POWDER OR SOLID OR GRAIN? OR  
?GRANUL? OR ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)  
L74 2 SEA ABB=ON PLU=ON L72 AND L73  
D KWIC 1-2  
D SCAN  
SAVE TEMP L74 BER538MUL1/A  
D SAVED

FILE 'STNGUIDE' ENTERED AT 16:19:47 ON 18 AUG 2005

D QUE L58  
D QUE L68  
D QUE L74

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 18 Aug 2005 VOL 143 ISS 8  
FILE LAST UPDATED: 17 Aug 2005 (20050817/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE STNGUIDE  
FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Aug 12, 2005 (20050812/UP).

FILE WPIX  
FILE LAST UPDATED: 15 AUG 2005 <20050815/UP>  
MOST RECENT DERWENT UPDATE: 200552 <200552/DW>  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
PLEASE VISIT:  
[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<

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FIRST VIEW - FILE WPIFV.



FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.

PLEASE CHECK:

<http://thomsonderwent.com/support/dwpioref/reftools/classification/code-rev>  
FOR DETAILS. <<<

#### FILE ZCAPLUS

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FILE COVERS 1907 - 18 Aug 2005 VOL 143 ISS 8  
FILE LAST UPDATED: 17 Aug 2005 (20050817/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

#### FILE MEDLINE

FILE LAST UPDATED: 17 AUG 2005 (20050817/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

#### FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

#### FILE PASCAL

FILE LAST UPDATED: 15 AUG 2005 <20050815/UP>  
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE

IN THE BASIC INDEX (/BI) FIELD <<<

FILE JICST-EPLUS

FILE COVERS 1985 TO 15 AUG 2005 (20050815/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE CANCERLIT

FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE DRUGU

FILE LAST UPDATED: 17 AUG 2005 <20050817/UP>

>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<

>>> THESAURUS AVAILABLE IN /CT <<<

FILE DRUGB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE SCISEARCH

FILE COVERS 1974 TO 11 Aug 2005 (20050811/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

=> => d que 121

L1 ( 1261035)SEA FILE=HCAPLUS ABB=ON PLU=ON ALCOHOLS+PFT,NT1/CT  
L2 ( 8982)SEA FILE=HCAPLUS ABB=ON PLU=ON L1 (L) REM/RL  
L3 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR  
METHANOL OR PROPANOL OR ISOPROPANOL  
L4 QUE ABB=ON PLU=ON AIR OR GAS OR MIST OR VAPOR  
L5 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?  
L6 ( 92)SEA FILE=HCAPLUS ABB=ON PLU=ON L2 (L) ?CRYSTAL?  
L7 ( 45)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND (TOXICOLOGY OR  
RADIATION OR "AMINO ACIDS" OR BIOMOLECULES OR BENZENOID OR  
HETEROCYCLIC OR PHARM? OR "UNIT OPERATIONS" OR TERPENES OR  
PLASTICS)/SC  
L8 ( 4)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND (IOHEXOL OR CAROTENOID)  
/TI  
L9 ( 7)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND UNIT/SC  
L10 ( 2)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND AMINO/SC  
L11 ( 56)SEA FILE=HCAPLUS ABB=ON PLU=ON (L7 OR L8 OR L9 OR L10)  
L12 ( 10)SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND DRYING/CT  
L13 ( 2)SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L4  
L14 ( 1)SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND PHARM?/SC  
L15 ( 6)SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND (L5 OR (WATER(1W)VAPOR  
)  
L16 ( 4)SEA FILE=HCAPLUS ABB=ON PLU=ON L15 NOT L13  
L17 ( 154)SEA FILE=HCAPLUS ABB=ON PLU=ON L3 (1W) DISPLAC?

L18 ( 186)SEA FILE=HCAPLUS ABB=ON PLU=ON DISPLAC? (2W) L3  
L19 ( 9)SEA FILE=HCAPLUS ABB=ON PLU=ON ((L17 OR L18)) (5A) (L4 OR  
L5)  
L20 ( 2)SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND (EXPLOSIVES OR  
COATINGS)/SC  
L21 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 OR L16 OR L20

=> d que 129

L22 ( 19238)SEA FILE=WPIX ABB=ON PLU=ON (B01D001? OR B01D012? OR  
F26B003? OR F26B005?)/IPC  
L23 ( 11596)SEA FILE=WPIX ABB=ON PLU=ON (?ALCOHOL?/BIX OR ?ALKANOL?/BIX  
OR ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/B  
IX) (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX  
L24 ( 501)SEA FILE=WPIX ABB=ON PLU=ON L23 (7A) ((AIR/BIX OR GAS/BIX OR  
MIST/BIX OR VAPOR/BIX) OR WET/BIX OR (WATER(1W) (VAPOR OR  
VAPOUR))/BIX)  
L25 ( 6)SEA FILE=WPIX ABB=ON PLU=ON L22 AND L24  
L26 ( 1)SEA FILE=WPIX ABB=ON PLU=ON L25 AND (DRIED(1W)FOOD)/TI  
L27 ( 10)SEA FILE=WPIX ABB=ON PLU=ON L24 (10A) ?CRYSTAL?/BIX  
L28 ( 2)SEA FILE=WPIX ABB=ON PLU=ON L27 AND (DISTANNOXANE OR  
CEFAMANDOLE)/TI  
L29 3 SEA FILE=WPIX ABB=ON PLU=ON L26 OR L28

=> d que 153

L30 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR  
METHANOL OR PROPANOL OR ISOPROPANOL  
L31 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?  
L32 ( 1114)SEA L30 (1W) (REMOV? OR DISPLAC?)  
L33 ( 1340)SEA (REMOV? OR DISPLAC?) (2W) L30  
L34 ( 44)SEA (L32 OR L33) (7A) (L31 OR AIR OR (WATER (1W) (VAPOR OR  
VAPOUR)) OR STEAM)  
L35 ( 23)DUP REM L34 (21 DUPLICATES REMOVED)  
L36 ( 3)SEA L34 (15A) (POWDER OR SOLID OR GRAIN? OR ?GRANUL? OR  
?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)  
L37 ( 5)SEA FILE=MEDLINE L35  
L38 ( 0)SEA FILE=MEDLINE L37 AND L36  
L39 ( 5)SEA FILE=BIOSIS L35  
L40 ( 0)SEA FILE=BIOSIS L39 AND L36  
L41 ( 6)SEA FILE=PASCAL L35  
L42 1 SEA FILE=PASCAL L41 AND L36  
L43 ( 3)SEA FILE=JICST-EPLUS L35  
L44 ( 0)SEA FILE=JICST-EPLUS L43 AND L36  
L45 ( 0)SEA FILE=CANCERLIT L35  
L46 ( 0)SEA FILE=CANCERLIT L45 AND L36  
L47 ( 0)SEA FILE=DRUGU L35  
L48 ( 0)SEA FILE=DRUGU L47 AND L36  
L49 ( 0)SEA FILE=DRUGB L35  
L50 ( 0)SEA FILE=DRUGB L49 AND L36  
L51 ( 4)SEA FILE=SCISEARCH L35  
L52 1 SEA FILE=SCISEARCH L51 AND L36  
L53 2 SEA L35 AND L36

=> d his ful

(FILE 'HOME' ENTERED AT 07:49:54 ON 22 AUG 2005)

FILE 'HCAPLUS' ENTERED AT 07:50:04 ON 22 AUG 2005

## ACT BER538HCAK1/A

```

L1 ( 1261035)SEA ABB=ON PLU=ON ALCOHOLS+PFT,NT1/CT
L2 ( 8982)SEA ABB=ON PLU=ON L1 (L) REM/RL
L3 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
METHANOL OR PROPANOL OR ISOPROPANOL
L4 QUE ABB=ON PLU=ON AIR OR GAS OR MIST OR VAPOR
L5 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?
L6 ( 92)SEA ABB=ON PLU=ON L2 (L) ?CRYSTAL?
L7 ( 45)SEA ABB=ON PLU=ON L6 AND (TOXICOLOGY OR RADIATION OR "AMINO
ACIDS" OR BIOMOLECULES OR BENZENOID OR HETEROCYCLIC OR PHARM?
OR "UNIT OPERATIONS" OR TERPENES OR PLASTICS)/SC
L8 ( 4)SEA ABB=ON PLU=ON L6 AND (IOHEXOL OR CAROTENOID)/TI
L9 ( 7)SEA ABB=ON PLU=ON L6 AND UNIT/SC
L10 ( 2)SEA ABB=ON PLU=ON L6 AND AMINO/SC
L11 ( 56)SEA ABB=ON PLU=ON (L7 OR L8 OR L9 OR L10)
L12 ( 10)SEA ABB=ON PLU=ON L11 AND DRYING/CT
L13 ( 2)SEA ABB=ON PLU=ON L12 AND L4
L14 ( 1)SEA ABB=ON PLU=ON L13 AND PHARM?/SC
L15 ( 6)SEA ABB=ON PLU=ON L11 AND (L5 OR (WATER(1W)VAPOR))
L16 ( 4)SEA ABB=ON PLU=ON L15 NOT L13
L17 ( 154)SEA ABB=ON PLU=ON L3 (1W) DISPLAC?
L18 ( 186)SEA ABB=ON PLU=ON DISPLAC? (2W) L3
L19 ( 9)SEA ABB=ON PLU=ON ((L17 OR L18)) (5A) (L4 OR L5)
L20 ( 2)SEA ABB=ON PLU=ON L19 AND (EXPLOSIVES OR COATINGS)/SC
L21 7 SEA ABB=ON PLU=ON L14 OR L16 OR L20

```

FILE 'WPIX' ENTERED AT 07:50:22 ON 22 AUG 2005

## ACT BER538WPIK1/A

```

L22 ( 19238)SEA ABB=ON PLU=ON (B01D001? OR B01D012? OR F26B003? OR
F26B005?)/IPC
L23 ( 11596)SEA ABB=ON PLU=ON (?ALCOHOL?/BIX OR ?ALKANOL?/BIX OR
ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/BIX)
(3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX
L24 ( 501)SEA ABB=ON PLU=ON L23 (7A) ((AIR/BIX OR GAS/BIX OR MIST/BIX
OR VAPOR/BIX) OR WET/BIX OR (WATER(1W) (VAPOR OR VAPOUR))/BIX)
L25 ( 6)SEA ABB=ON PLU=ON L22 AND L24
L26 ( 1)SEA ABB=ON PLU=ON L25 AND (DRIED(1W)FOOD)/TI
L27 ( 10)SEA ABB=ON PLU=ON L24 (10A) ?CRYSTAL?/BIX
L28 ( 2)SEA ABB=ON PLU=ON L27 AND (DISTANNOXANE OR CEFAMANDOLE)/TI
L29 3 SEA ABB=ON PLU=ON L26 OR L28

```

FILE 'STNGUIDE' ENTERED AT 07:50:36 ON 22 AUG 2005

FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,  
SCISEARCH' ENTERED AT 07:51:07 ON 22 AUG 2005

## ACT BER538MUL1/A

```

L30 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
METHANOL OR PROPANOL OR ISOPROPANOL
L31 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?
L32 ( 1114)SEA ABB=ON PLU=ON L30 (1W) (REMOV? OR DISPLAC?)
L33 ( 1340)SEA ABB=ON PLU=ON (REMOV? OR DISPLAC?) (2W) L30
L34 ( 44)SEA ABB=ON PLU=ON (L32 OR L33) (7A) (L31 OR AIR OR (WATER
(1W) (VAPOR OR VAPOUR)) OR STEAM)
L35 ( 23)DUP REM L34 (21 DUPLICATES REMOVED)
L36 ( 3)SEA ABB=ON PLU=ON L34 (15A) (POWDER OR SOLID OR GRAIN? OR

```

?GRANUL? OR ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)

L37 ( 5)SEA L35  
 L38 ( 0)SEA L37 AND L36  
 L39 ( 5)SEA L35  
 L40 ( 0)SEA L39 AND L36  
 L41 ( 6)SEA L35  
 L42 1 SEA L41 AND L36  
 L43 ( 3)SEA L35  
 L44 ( 0)SEA L43 AND L36  
 L45 ( 0)SEA L35  
 L46 ( 0)SEA L45 AND L36  
 L47 ( 0)SEA L35  
 L48 ( 0)SEA L47 AND L36  
 L49 ( 0)SEA L35  
 L50 ( 0)SEA L49 AND L36  
 L51 ( 4)SEA L35  
 L52 1 SEA L51 AND L36  
 L53 2 SEA ABB=ON PLU=ON L35 AND L36  
 -----

FILE 'STNGUIDE' ENTERED AT 07:51:23 ON 22 AUG 2005

FILE 'ZCAPLUS' ENTERED AT 07:51:47 ON 22 AUG 2005

FILE 'HCAPLUS' ENTERED AT 07:51:50 ON 22 AUG 2005

FILE 'WPIX' ENTERED AT 07:51:52 ON 22 AUG 2005

FILE 'MEDLINE' ENTERED AT 07:51:58 ON 22 AUG 2005

FILE 'PASCAL' ENTERED AT 07:52:02 ON 22 AUG 2005

FILE 'BIOSIS' ENTERED AT 07:52:05 ON 22 AUG 2005

FILE 'JICST-EPLUS' ENTERED AT 07:52:08 ON 22 AUG 2005

FILE 'CANCERLIT' ENTERED AT 07:52:12 ON 22 AUG 2005

FILE 'DRUGU' ENTERED AT 07:52:15 ON 22 AUG 2005

FILE 'DRUGB' ENTERED AT 07:52:20 ON 22 AUG 2005

FILE 'SCISEARCH' ENTERED AT 07:52:25 ON 22 AUG 2005

FILE 'STNGUIDE' ENTERED AT 07:52:29 ON 22 AUG 2005

D QUE L21

D QUE L29

D QUE L53

FILE 'STNGUIDE' ENTERED AT 07:53:02 ON 22 AUG 2005

FILE 'HCAPLUS, WPIX, PASCAL, SCISEARCH' ENTERED AT 07:53:09 ON 22 AUG 2005

L54 12 DUP REM L21 L29 L53 (0 DUPLICATES REMOVED)  
 ANSWERS '1-7' FROM FILE HCAPLUS  
 ANSWERS '8-10' FROM FILE WPIX  
 ANSWER '11' FROM FILE PASCAL  
 ANSWER '12' FROM FILE SCISEARCH  
 D IBIB ED AB HITIND  
 D IBIB ED AB HITIND 2-7  
 D IALL ABEQ TECH ABEX 8-10

D IBIB ED AB HITIND 11-

FILE 'STNGUIDE' ENTERED AT 07:54:58 ON 22 AUG 2005

D QUE L21

D QUE L29

D QUE L53

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 22 Aug 2005 VOL 143 ISS 9

FILE LAST UPDATED: 21 Aug 2005 (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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FILE WPIX

FILE LAST UPDATED: 18 AUG 2005 <20050818/UP>

MOST RECENT DERWENT UPDATE: 200553 <200553/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
PLEASE VISIT:  
[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE  
<http://thomsonderwent.com/coverage/latestupdates/> <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER  
GUIDES, PLEASE VISIT:  
<http://thomsonderwent.com/support/userguides/> <<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT  
DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX  
FIRST VIEW - FILE WPIFV.  
FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.  
PLEASE CHECK:  
<http://thomsonderwent.com/support/dwpioref/reftools/classification/code-rev>  
FOR DETAILS. <<<

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Aug 12, 2005 (20050812/UP).

## FILE MEDLINE

FILE LAST UPDATED: 20 AUG 2005 (20050820/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>

[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

## FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

## FILE PASCAL

FILE LAST UPDATED: 22 AUG 2005 <20050822/UP>

FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE  
IN THE BASIC INDEX (/BI) FIELD <<<

## FILE JICST-EPLUS

FILE COVERS 1985 TO 15 AUG 2005 (20050815/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

## FILE CANCERLIT

FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

## FILE DRUGU

FILE LAST UPDATED: 17 AUG 2005 <20050817/UP>

>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<

>>> THESAURUS AVAILABLE IN /CT <<<

FILE DRUGB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE SCISEARCH

FILE COVERS 1974 TO 18 Aug 2005 (20050818/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

FILE ZCAPLUS

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FILE COVERS 1907 - 22 Aug 2005 VOL 143 ISS 9

FILE LAST UPDATED: 21 Aug 2005 (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>



=> fil zcap  
FILE 'ZCAPLUS' ENTERED AT 07:51:47 ON 22 AUG 2005  
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FILE COVERS 1907 - 22 Aug 2005 VOL 143 ISS 9  
FILE LAST UPDATED: 21 Aug 2005 (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil hcap  
FILE 'HCAPLUS' ENTERED AT 07:51:50 ON 22 AUG 2005  
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FILE COVERS 1907 - 22 Aug 2005 VOL 143 ISS 9  
FILE LAST UPDATED: 21 Aug 2005 (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil wpix  
FILE 'WPIX' ENTERED AT 07:51:52 ON 22 AUG 2005  
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FILE LAST UPDATED: 18 AUG 2005 <20050818/UP>  
MOST RECENT DERWENT UPDATE: 200553 <200553/DW>  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
PLEASE VISIT:

[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE  
<http://thomsonderwent.com/coverage/latestupdates/> <<<

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GUIDES, PLEASE VISIT:  
<http://thomsonderwent.com/support/userguides/> <<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT  
DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX  
FIRST VIEW - FILE WPIFV.  
FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.  
PLEASE CHECK:  
<http://thomsonderwent.com/support/dwpioref/reftools/classification/code-revision/>  
FOR DETAILS. <<<

=> fil medlin  
FILE 'MEDLINE' ENTERED AT 07:51:58 ON 22 AUG 2005

FILE LAST UPDATED: 20 AUG 2005 (20050820/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP  
RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the  
MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> fil pascal  
FILE 'PASCAL' ENTERED AT 07:52:02 ON 22 AUG 2005  
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FILE LAST UPDATED: 22 AUG 2005 <20050822/UP>  
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE  
IN THE BASIC INDEX (/BI) FIELD <<<

=> fil biosis  
FILE 'BIOSIS' ENTERED AT 07:52:05 ON 22 AUG 2005  
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FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

=> fil jicst

FILE 'JICST-EPLUS' ENTERED AT 07:52:08 ON 22 AUG 2005  
COPYRIGHT (C) 2005 Japan Science and Technology Agency (JST)

FILE COVERS 1985 TO 15 AUG 2005 (20050815/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED  
TERM (/CT) THESAURUS RELOAD.

=> fil cancerlit

FILE 'CANCERLIT' ENTERED AT 07:52:12 ON 22 AUG 2005

FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the  
MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance  
identification.

=> fil drugu

FILE 'DRUGU' ENTERED AT 07:52:15 ON 22 AUG 2005  
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FILE LAST UPDATED: 17 AUG 2005 <20050817/UP>  
>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<  
>>> THESAURUS AVAILABLE IN /CT <<<

=> fil drugb

FILE 'DRUGB' ENTERED AT 07:52:20 ON 22 AUG 2005  
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>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

=> fil scisearch

FILE 'SCISEARCH' ENTERED AT 07:52:25 ON 22 AUG 2005  
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FILE COVERS 1974 TO 18 Aug 2005 (20050818/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 07:52:29 ON 22 AUG 2005  
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FILE CONTAINS CURRENT INFORMATION.

Berch 10/688,538

08/22/2005

LAST RELOADED: Aug 12, 2005 (20050812/UP).

=&gt; d que 121

L1 ( 1261035)SEA FILE=HCAPLUS ABB=ON PLU=ON ALCOHOLS+PFT,NT1/CT  
 L2 ( 8982)SEA FILE=HCAPLUS ABB=ON PLU=ON L1 (L) REM/RL  
 L3 QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR  
 METHANOL OR PROPANOL OR ISOPROPANOL  
 L4 QUE ABB=ON PLU=ON AIR OR GAS OR MIST OR VAPOR  
 L5 QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?  
 L6 ( 92)SEA FILE=HCAPLUS ABB=ON PLU=ON L2 (L) ?CRYSTAL?  
 L7 ( 45)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND (TOXICOLOGY OR  
 RADIATION OR "AMINO ACIDS" OR BIOMOLECULES OR BENZENOID OR  
 HETEROCYCLIC OR PHARM? OR "UNIT OPERATIONS" OR TERPENES OR  
 PLASTICS)/SC  
 L8 ( 4)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND (IOHEXOL OR CAROTENOID)  
 /TI  
 L9 ( 7)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND UNIT/SC  
 L10 ( 2)SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND AMINO/SC  
 L11 ( 56)SEA FILE=HCAPLUS ABB=ON PLU=ON (L7 OR L8 OR L9 OR L10)  
 L12 ( 10)SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND DRYING/CT  
 L13 ( 2)SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L4  
 L14 ( 1)SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND PHARM?/SC  
 L15 ( 6)SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND (L5 OR (WATER(1W)VAPOR  
 ))  
 L16 ( 4)SEA FILE=HCAPLUS ABB=ON PLU=ON L15 NOT L13  
 L17 ( 154)SEA FILE=HCAPLUS ABB=ON PLU=ON L3 (1W) DISPLAC?  
 L18 ( 186)SEA FILE=HCAPLUS ABB=ON PLU=ON DISPLAC? (2W) L3  
 L19 ( 9)SEA FILE=HCAPLUS ABB=ON PLU=ON ((L17 OR L18)) (5A) (L4 OR  
 L5)  
 L20 ( 2)SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND (EXPLOSIVES OR  
 COATINGS)/SC  
 L21 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 OR L16 OR L20

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L22 ( 19238)SEA FILE=WPIX ABB=ON PLU=ON (B01D001? OR B01D012? OR  
 F26B003? OR F26B005?)/IPC  
 L23 ( 11596)SEA FILE=WPIX ABB=ON PLU=ON (?ALCOHOL?/BIX OR ?ALKANOL?/BIX  
 OR ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/B  
 IX) (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX  
 L24 ( 501)SEA FILE=WPIX ABB=ON PLU=ON L23 (7A) ((AIR/BIX OR GAS/BIX OR  
 MIST/BIX OR VAPOR/BIX) OR WET/BIX OR (WATER(1W) (VAPOR OR  
 VAPOUR))/BIX)  
 L25 ( 6)SEA FILE=WPIX ABB=ON PLU=ON L22 AND L24  
 L26 ( 1)SEA FILE=WPIX ABB=ON PLU=ON L25 AND (DRIED(1W)FOOD)/TI  
 L27 ( 10)SEA FILE=WPIX ABB=ON PLU=ON L24 (10A) ?CRYSTAL?/BIX  
 L28 ( 2)SEA FILE=WPIX ABB=ON PLU=ON L27 AND (DISTANNOXANE OR  
 CEFAMANDOLE)/TI  
 L29 3 SEA FILE=WPIX ABB=ON PLU=ON L26 OR L28

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(FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,  
 SCISEARCH' ENTERED AT 07:51:07 ON 22 AUG 2005)

L53 2 SEA L35 AND L36  
 -----

FILE 'STNGUIDE' ENTERED AT 07:51:23 ON 22 AUG 2005

FILE 'ZCAPLUS' ENTERED AT 07:51:47 ON 22 AUG 2005

FILE 'HCAPLUS' ENTERED AT 07:51:50 ON 22 AUG 2005  
FILE 'WPIX' ENTERED AT 07:51:52 ON 22 AUG 2005  
FILE 'MEDLINE' ENTERED AT 07:51:58 ON 22 AUG 2005  
FILE 'PASCAL' ENTERED AT 07:52:02 ON 22 AUG 2005  
FILE 'BIOSIS' ENTERED AT 07:52:05 ON 22 AUG 2005  
FILE 'JICST-EPLUS' ENTERED AT 07:52:08 ON 22 AUG 2005  
FILE 'CANCERLIT' ENTERED AT 07:52:12 ON 22 AUG 2005  
FILE 'DRUGU' ENTERED AT 07:52:15 ON 22 AUG 2005  
FILE 'DRUGB' ENTERED AT 07:52:20 ON 22 AUG 2005  
FILE 'SCISEARCH' ENTERED AT 07:52:25 ON 22 AUG 2005  
FILE 'STNGUIDE' ENTERED AT 07:52:29 ON 22 AUG 2005

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L30           QUE ABB=ON PLU=ON ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR  
              METHANOL OR PROPANOL OR ISOPROPANOL  
L31           QUE ABB=ON PLU=ON HUMID? OR MOIST? OR DAMP?  
L32 (       1114)SEA L30 (1W) (REMOV? OR DISPLAC?)  
L33 (       1340)SEA (REMOV? OR DISPLAC?) (2W) L30  
L34 (       44)SEA (L32 OR L33) (7A) (L31 OR AIR OR (WATER (1W) (VAPOR OR  
              VAPOUR)) OR STEAM)  
L35 (       23)DUP REM L34 (21 DUPLICATES REMOVED)  
L36 (       3)SEA L34 (15A) (POWDER OR SOLID OR GRAIN? OR ?GRANUL? OR  
              ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)  
L37 (       5)SEA FILE=MEDLINE L35  
L38 (       0)SEA FILE=MEDLINE L37 AND L36  
L39 (       5)SEA FILE=BIOSIS L35  
L40 (       0)SEA FILE=BIOSIS L39 AND L36  
L41 (       6)SEA FILE=PASCAL L35  
L42       1 SEA FILE=PASCAL L41 AND L36  
L43 (       3)SEA FILE=JICST-EPLUS L35  
L44 (       0)SEA FILE=JICST-EPLUS L43 AND L36  
L45 (       0)SEA FILE=CANCERLIT L35  
L46 (       0)SEA FILE=CANCERLIT L45 AND L36  
L47 (       0)SEA FILE=DRUGU L35  
L48 (       0)SEA FILE=DRUGU L47 AND L36  
L49 (       0)SEA FILE=DRUGB L35  
L50 (       0)SEA FILE=DRUGB L49 AND L36  
L51 (       4)SEA FILE=SCISEARCH L35  
L52       1 SEA FILE=SCISEARCH L51 AND L36  
L53       2 SEA L35 AND L36       #

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 07:53:02 ON 22 AUG 2005  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Aug 12, 2005 (20050812/UP).

=> dup rem l21 l29 l53

FILE 'HCAPLUS' ENTERED AT 07:53:09 ON 22 AUG 2005

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FILE 'PASCAL' ENTERED AT 07:53:09 ON 22 AUG 2005

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FILE 'SCISEARCH' ENTERED AT 07:53:09 ON 22 AUG 2005

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PROCESSING COMPLETED FOR L21

PROCESSING COMPLETED FOR L29

PROCESSING COMPLETED FOR L53

L54 . . . 12 DUP REM L21 L29 L53 (0 DUPLICATES REMOVED)

ANSWERS '1-7' FROM FILE HCAPLUS

ANSWERS '8-10' FROM FILE WPIX

ANSWER '11' FROM FILE PASCAL

ANSWER '12' FROM FILE SCISEARCH

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L54 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2005:238698 HCAPLUS  
 DOCUMENT NUMBER: 142:303646  
 TITLE: Method for reducing residual alcohols in crystalline  
 valacyclovir hydrochloride  
 INVENTOR(S): Dolitzky, Ben-zion; Lifshitz, Igor  
 PATENT ASSIGNEE(S): Israel  
 SOURCE: U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S.  
 Ser. No. 688,538.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005059684	A1	20050317	US 2004-880862	20040630
US 2005070711	A1	20050331	US 2003-688538	20031016
PRIORITY APPLN. INFO.:			US 2002-419270P	P 20021016
			US 2002-427320P	P 20021118
			US 2003-688538	A2 20031016

ED Entered STN: 18 Mar 2005  
 AB Provided is valacyclovir hydrochloride stable against formation of  
 N'-formylvalacyclovir upon storage at elevated **humidity** and  
 pharmaceutical compns. including such valacyclovir hydrochloride.  
 IC ICM A61K031-522  
 ICS C07D473-12  
 INCL 514263380; 544276000  
 CC 63-6 (Pharmaceuticals)  
 IT **Humidity**  
 (elevated; reducing residual alcs. in crystalline valacyclovir hydrochloride  
 to prevent N'-formylvalacyclovir formation)  
 IT Air  
 (humid; reducing residual alcs. in crystalline valacyclovir  
 hydrochloride to prevent N'-formylvalacyclovir formation)  
 IT **Alcohols, processes**  
 RL: REM (Removal or disposal); PROC (Process)  
 (reducing residual alcs. in crystalline valacyclovir hydrochloride  
 to prevent N'-formylvalacyclovir formation)  
 IT 67-63-0, Isopropanol, uses  
 RL: NUU (Other use, unclassified); REM (Removal or disposal);  
 PROC (Process); USES (Uses)  
 (reducing residual alcs. in crystalline valacyclovir hydrochloride  
 to prevent N'-formylvalacyclovir formation)

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L54 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:354944 HCAPLUS  
 DOCUMENT NUMBER: 140:357665  
 TITLE: Method for reducing the residual process alcohols  
 present in crystalline valacyclovir hydrochloride by  
 contacting it with a **humid** gas at ambient  
 pressure  
 INVENTOR(S): Dolitzky, Ben-Zion; Lifshitz, Igor  
 PATENT ASSIGNEE(S): Teva Pharmaceutical Industries Ltd., Israel; Teva



SOURCE: Pharmaceuticals USA, Inc.  
 PCT Int. Appl., 13 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

*Same*

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004035583	A1	20040429	WO 2003-US32995	20031016
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2501557 AA 20040429 CA 2003-2501557 20031016 EP 1551838 A1 20050713 EP 2003-809127 20031016 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2002-419270P P 20021016 US 2002-427320P P 20021118 WO 2003-US32995 W 20031016				

ED Entered STN: 30 Apr 2004

AB A method of reducing excess residual process alc. (e.g., isopropanol) in valacyclovir hydrochloride to  $\leq 1000$  ppm is achieved by contacting the valacyclovir hydrochloride having excess residual process alc. with a moist gas (e.g., moist air) in a fluidized-bed reactor.

IC ICM C07D473-18

CC 34-2 (Amino Acids, Peptides, and Proteins)  
 Section cross-reference(s): 45, 48, 63

ST valacyclovir hydrochloride removal process alc; residual isopropanol removal valacyclovir hydrochloride contact moist gas

IT Extraction apparatus  
 Reactors  
 (fluidized-bed; method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure in a)

IT Air  
 (humid; method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure)

IT Alcohols, processes  
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); REM (Removal or disposal); PROC (Process)  
 (method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure)

IT Fluidized beds  
 (reactors; method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure in a)

IT 7732-18-5, Water, uses  
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)

(method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure)

IT 124832-27-5P, Valacyclovir hydrochloride

RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); PREP (Preparation); PROC (Process)  
(method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure)

IT 64-17-5, Ethanol, processes 67-63-0, 2-Propanol, processes

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); REM (Removal or disposal); PROC (Process)  
(method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a humid gas at ambient pressure)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:886110 HCAPLUS

DOCUMENT NUMBER: 136:20030

TITLE: Method for replacing organic solvents contained in clathrate crystals

INVENTOR(S): Kubota, Ariyoshi; Yasuda, Hironobu; Zanka, Atsuhiko; Goto, Shunsuke; Hirabayashi, Satoshi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092254	A1	20011206	WO 2001-JP4467	20010528
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

PRIORITY APPLN. INFO.: JP 2000-160590 A 20000530

OTHER SOURCE(S): CASREACT 136:20030

ED Entered STN: 07 Dec 2001

AB The problem of how to replace an organic solvent contained in clathrate crystals with water without causing transition of the crystals is solved by using a fluidizing means under a humidity-conditioned atmospheric, the clathrate crystals being especially A-type crystals of

8-[3-[N-[N-[(E)-3-(6-acetamidopyridin-3-yl)acryloyl]glycyl]-N-methylamino]-2,6-dichlorobenzoyloxy]-2-methylquinoline (FR173657) (I). I is a bradykinin antagonist and its A-type crystal is crystallized from aqueous acetone which is known to be stable but contain toxic acetone as a guest in tunnels of clathrate structure. This process efficiently replaces organic solvents such as acetone with water in a short period of time. Thus, 7.32 kg iso-Pr chlorocarbonate was added to a mixture of 12.9 kg (E)-3-(6-acetamidopyridin-3-yl)acrylic acid and 97.9 kg DMF at 0° over a period of apprx.20 min and stirred at 0° for 30 min, followed by adding 23.0 kg 8-[3-(N-glycyl-N-methylamino)-2,6-dichlorobenzoyloxy]-2-methylquinoline in five portions at an interval of every 15 min and washing with 7.32 kg DMF. The resulting mixture was stirred at 0° for 1.5 h, treated with 130 L

MeOH and left to stand overnight, heated to .apprx.65° and stirred at the same temperature for .apprx.30 min, and then cooled to ≤10° and allowed to be crystallized at 0-10°. The precipitated crystals were separated by a centrifuge apparatus and washed with 46 L MeOH, suspended in 805 L MeOH, heated to .apprx.65°, cooled, and stirred at 10-20° for ≥1 h, and then filtered. The obtained crystals were washed with 46 L MeOH and vacuum-dried at 40° to give 24.6 kg of crude anhydrous crystals of I containing .apprx.5% MeOH. To a mixture of the latter crystals (100 g) and 500 mL purified water was added 28.1 mL concentrated HCl with stirring at ≤10° for dissolving the crystals. The resulting solution was treated with 5 g carbon powder, and stirred for 1.5 h, followed by removing the carbon powder by filtration and washing it with 200 mL purified water and 1.4 mL concentrated HCl. The filtrate was added to a mixture of 700 mL acetone and 35.87 g Et3N at 55°, stirred at the same temperature for 5 min and refluxed for 10 min, and then cooled to 40°. The precipitated crystals were removed by filtration, washed with 50% aqueous acetone, and vacuum-dried to give 88.7 g I hydrate (A-type clathrate crystal) containing 8.33% acetone. Air was passed to this crystals (12.3 kg) at 45° under 60% relative humidity for 98 h in a vibration fluidized bed apparatus to give I crystals containing 0.37% acetone and 6.69% water.

IC ICM C07D401-12  
ICS C07D471-00; C07D501-12; A61K031-4709; A61P043-00; A61P009-12  
CC 27-17 (Heterocyclic Compounds (One Hetero Atom))  
Section cross-reference(s): 1  
IT Fluidized beds  
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

IT Clathrates  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

IT Solvents  
(organic; method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

IT 167838-64-4P  
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
(bradykinin antagonist; method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

IT 64-17-5, Ethanol, uses 67-56-1, Methanol, uses 67-63-0, Isopropyl alcohol, uses 67-64-1, Acetone, uses 75-05-8, Acetonitrile, uses 109-99-9, Tetrahydrofuran, uses 141-78-6, Ethyl acetate, uses  
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); REM (Removal or disposal); PROC (Process); USES (Uses)  
(crystallization solvent; method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid

conditions in fluidized bed apparatus)

IT 264879-68-7P  
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
 (method for replacing organic solvents contained in dichlorobenzylloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

IT 264879-67-6P 377780-51-3P  
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
 (method for replacing organic solvents contained in dichlorobenzylloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

IT 160648-18-0 167834-66-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (method for replacing organic solvents contained in dichlorobenzylloxymethylquinoline derivative (FR173657) clathrate crystals with water under humid conditions in fluidized bed apparatus)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:872995 HCAPLUS  
 DOCUMENT NUMBER: 136:20027  
 TITLE: Release of guest solvents from clathrate crystals  
 INVENTOR(S): Kubota, Arikatsu; Yasuda, Hironobu; Zanka, Atsuhiko; Itsushima, Shunsuke; Hirabayashi, Satoshi  
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001334102	A2	20011204	JP 2000-160591	20000530
PRIORITY APPLN. INFO.:			JP 2000-160591	20000530

ED Entered STN: 04 Dec 2001

AB Solvents in clathrate crystals are released by substitution of the solvents with easily releasable solvents and releasing the solvents from the crystals. A-type crystals of FR 173657 (containing acetone as a guest) were treated with MeOH vapor at 30° for 1 day, vacuum-dried at 30° under 1-4 Torr for 2 days, and moisture-conditioned to give crystals with acetone content 0.02 weight% and MeOH content 0.19 weight%.

IC ICM B01D012-00  
 ICS C07D401-12

CC 27-17 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 63

IT 64-17-5, Ethanol, processes 67-63-0, Isopropyl alcohol, processes 109-99-9, THF, processes 141-78-6, Ethyl acetate, processes  
 RL: REM (Removal or disposal); PROC (Process)  
 (release of guest solvents from clathrate crystals)

L54 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:175753 HCAPLUS  
 DOCUMENT NUMBER: 130:213704  
 TITLE: Method for removal of residual organic solvents from a crystalline bulk substance and use thereof in manufacturing pharmaceuticals  
 INVENTOR(S): Mudryk, Bogdan; Dung, Jen-Sen; Sapino, Chester; Guro, James  
 PATENT ASSIGNEE(S): Johnson Matthey Public Limited Company, UK  
 SOURCE: Eur. Pat. Appl., 6 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 900582	A1	19990310	EP 1998-306341	19980807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9878540	A1	19990304	AU 1998-78540	19980729
CA 2245314	AA	19990221	CA 1998-2245314	19980819
JP 11147844	A2	19990602	JP 1998-235468	19980821
US 5981751	A	19991109	US 1998-138086	19980821
PRIORITY APPLN. INFO:			GB 1997-17629	A 19970821
ED	Entered STN: 17 Mar 1999			
AB	A method for removing residual organic solvents from a bulk substance, for example from a pharmaceutical drug substance, comprises drying the bulk substance in the presence of water vapor, such that the residual organic solvent mols. are displaced with water vapor mols. A sample of hydrocodone bitartrate containing 2.1% EtOH was placed in a vacuum oven along with a crystallization dish containing water, a vacuum applied and the sample dried at 60° for 24h to give ethanol-free products (as the hemipentahydrate).			
IC	ICM B01D001-00 ICS F26B003-00; F26B005-00			
CC	63-8 (Pharmaceuticals)			
IT	Drying Drying apparatus Water vapor (removal of residual organic solvents from a crystalline bulk substance and use in manufacturing pharmaceuticals)			
IT	64-17-5, Ethanol, processes 71-23-8, 1-Propanol, processes RL: REM (Removal or disposal); PROC (Process) (removal of residual organic solvents from a crystalline bulk substance and use in manufacturing pharmaceuticals)			
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L54 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:107130 HCAPLUS  
 DOCUMENT NUMBER: 84:107130  
 TITLE: Effect of the moisture content of organic pigments on their application in paints and printing inks  
 AUTHOR(S): Herbst, Willy; Merkle, Kurt  
 CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/Main, Fed. Rep. Ger.

SOURCE: FATIPEC Congress, (1974), 12, 219-24  
CODEN: FAPVAP; ISSN: 0430-2222

DOCUMENT TYPE: Journal

LANGUAGE: German

ED Entered STN: 12 May 1984

AB The effect of moisture content of pigments, which is quite pronounced, on the dispersibility of pigments in paints and offset printing inks and the wettability of pigments by hydrophobic binders is discussed. Essentially anhydrous pigments could not be prepared for use in this study. Since anal. methods for determining the moisture content of organic pigments are unsatisfactory, the prior history of the pigment was taken as a reference point for the data. Pigments from which H<sub>2</sub>O is displaced by solvents, i.e. MeOH [67-56-1] are most readily dispersible.

CC 42-5 (Coatings, Inks, and Related Products)

ST **methanol displacement moisture** pigment;  
moisture pigment dispersibility; binder wetting pigment moisture

L54 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1944:19581 HCAPLUS

DOCUMENT NUMBER: 38:19581

ORIGINAL REFERENCE NO.: 38:2821i,2822f-g

TITLE: Removal and distribution of solvent in nitrocellulose powders. The effect of atmospheric **moisture** in solvent removal upon **alcohol displacement** in powders

AUTHOR(S): Schmitt, R.

SOURCE: Zeitschrift fuer das Gesamte Schiess- und Sprengstoffwesen (1943), 38, 180-2  
CODEN: ZGSSAL; ISSN: 0372-8935

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

ED Entered STN: 16 Dec 2001

AB On removal of solvent at various atmospheric humidities, powders having various surface properties are obtained. With water-treated powders, increased atmospheric humidity in solvent removal corresponds to a reduction of the quantity of alc. driven out in fine powders. This rule does not apply to ether. With alc.-treated powders, the maximum total residual solvent removal corresponds to the maximum total residual solvent content in fine powder. The above rule thus applies here not only to the alcs., but also to total residual solvent, which is not unusual, because the total residual solvent contains only secondary quantities of ether. In both cases the effect of atmospheric humidity is most apparent between the practically important limits 60-100%.

CC 24 (**Explosives** and Explosions)

IT **Humidity**  
(effect on **alc. displacement** in solvent removal from nitrocellulose explosive powders)

IT Explosives  
(nitrocellulose powders, effect of atmospheric **moisture** in solvent removal on **alc. displacement** in)

=> d iall abeq tech abex 8-10

L54 ANSWER 8 OF 12 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

ACCESSION NUMBER: 2001-228050 [24] WPIX

DOC. NO. CPI: C2001-068199

TITLE: Preparation of polyester useful in fiber material involves polycondensation of a dicarboxylic acid and a diol in the presence of a **distannoxane**

catalyst.  
 DERWENT CLASS: A23 A92 A96 E12 F01  
 INVENTOR(S): HAYAKAWA, T; TAKAHASHI, H; TERANISHI, T; UEDA, M  
 PATENT ASSIGNEE(S): (DAIL) DAICEL CHEM IND LTD  
 COUNTRY COUNT: 27  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
EP 1069145	A1	20010117	(200124)*	EN	13	C08G063-85	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI							
JP 2001026640	A	20010130	(200124)		6	C08G063-85	
JP 2001302776	A	20011031	(200204)		7	C08G063-85	
US 6350850	B1	20020226	(200220)			C08G063-78	
EP 1069145	B1	20040707	(200445)	EN		C08G063-85	
R: DE FR NL							
DE 60011960	E	20040812	(200453)			C08G063-85	
DE 60011960	T2	20050804	(200551)			C08G063-85	

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 1069145	A1	EP 2000-402000	20000711
JP 2001026640	A	JP 1999-199768	19990714
JP 2001302776	A	JP 2000-124409	20000425
US 6350850	B1	US 2000-614650	20000712
EP 1069145	B1	EP 2000-402000	20000711
DE 60011960	E	DE 2000-00011960	20000711
		EP 2000-402000	20000711
DE 60011960	T2	DE 2000-00011960	20000711
		EP 2000-402000	20000711

## FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 60011960	E Based on	EP 1069145
DE 60011960	T2 Based on	EP 1069145

PRIORITY APPLN. INFO: JP 2000-124409 20000425; JP  
 1999-199768 19990714

## INT. PATENT CLASSIF.:

MAIN: C08G063-78; C08G063-85  
 SECONDARY: C08G063-16; C08G063-90

## BASIC ABSTRACT:

EP 1069145 A UPAB: 20020204

NOVELTY - Preparation of polyester involves polycondensation of a dicarboxylic acid (1) and a diol (2) in the presence of a distannoxane catalyst (3).

USE - For producing polyester (claimed) which is useful in fiber material, film, container or engineering plastic. The aliphatic polyester is also used as a suture.

ADVANTAGE - The industrially effective process provides a high polymerization degree aliphatic polyester without the use of a high boiling point solvent and degradation procedure under reduced pressure. The process is extremely advantageous for saving energy from the viewpoint of cost and the installation can be greatly simplified. The process reduces by-produced water. The catalyst distannoxane has no effect on an

equilibrium constant compared to other metal catalysts and does not cause reverse reaction i.e. hydrolysis due to presence of water. The distannoxanes are cheap and easily synthesized and are soluble in almost all organic solvents.

Dwg.0/0

FILE SEGMENT: CPI  
FIELD AVAILABILITY: AB; DCN  
MANUAL CODES: CPI: A02-A07; A05-E02; A10-D05; E05-F01; F01-D04  
TECH UPTX: 20020204

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Distannoxane Catalyst:

(3) is of formula  $X-Sn(R1)(R2)-O-Sn(R3)(R4)-Y$ .

R1-R4 = alkyl (preferably butyl);

X = T (preferably isothiocyanate);

Y = T (preferably hydroxy, alkoxy or acyloxy); and

T = isothiocyanate, halogen, hydroxy, alkoxy or acyloxy.

Preferred Components: (1) and (2) are preferably a non-aromatic dicarboxylic acid and non-aromatic diol respectively.

Preferred Composition: (2) is used in an amount of 1-1.2 moles per mole of (1).

TECHNOLOGY FOCUS - POLYMERS - Preferred Method: (1) and (2) are melt polycondensed under normal pressure in the presence of (3) and also in the presence of an organic solvent which does not dissolve any of (1), (2) and the polyester produced and results in the presence of mainly two phases. The polymer is isolated by precipitation or re-precipitation with an alcohol.

ABEX UPTX: 20020204

EXAMPLE - A solution (6 ml) of dichlorodibutyltin(IV) (3.34 g) in ethanol (6.6 ml) was added to an ethanol solution (13 ml) of potassium thiocyanate (1.94 g). This solution was stirred at 100 degreesC for 20 hours and filtered. The solvent of the filtrate was removed and the residue was recrystallized from toluene to obtain dibutyltin (IV) diisothiocyanate (A). Dibutyltin oxide (IV) (7.47 g) and an ethanol solution of (A) (3.5 g) were stirred at 100 degreesC for 6 hours. Then **ethanol** was **removed**, and the mixture was exposed to **air** for 1 day and **recrystallized** from n-hexane to obtain 1-hydroxy-3-isothiocyanate-1,1,3,3-tetrabutyl-distannoxane (B) as a catalyst. A mixture of succinic acid (0.295 g), 1,4-butanediol (0.225 g) and (B) (0.014 g) was stirred at 130 degreesC for 72 hours. Methanol was added after the completion of the reaction and stirred for 12 hours. The resulting powdery polymer was filtered and dried at 60 degreesC under reduced pressure to obtain a polyester (yield 93%). The number average molecular weight Mn of the polyester was 5000, and molecular weight distribution Mw/Mn was 2.16.

L54 ANSWER 9 OF 12 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

ACCESSION NUMBER: 1977-43408Y [25] WPIX

TITLE: Stable crystalline anhydrous sodium **cefamandole**  
- and the intermediate methanol solvate and monohydrate,  
for direct preparation of parenteral solutions.

DERWENT CLASS: B02

PATENT ASSIGNEE(S): (ELIL) LILLY & CO ELI

COUNTRY COUNT: 22

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
BE 849415	A	19770615	(197725)	*			
DE 2654647	A	19770630	(197727)				
NL 7614233	A	19770624	(197727)				
SE 7614401	A	19770718	(197731)				



NO 7604222	A	19770718	(197732)
JP 52082714	A	19770711	(197734)
DK 7605755	A	19770822	(197737)
FI 7603682	A	19770831	(197738)
US 4054738	A	19771018	(197743)
PT 65955	A	19771115	(197749)
DD 128727	A	19771207	(197810)
FR 2351984	A	19780120	(197810)
FR 2351985	A	19780120	(197810)
FR 2361898	A	19780421	(197820)
HU 14802	T	19780428	(197820)
ZA 7606957	A	19780522	(197829)
AT 7609489	A	19780715	(197831)
AT 7802175	A	19780815	(197835)
AT 7802178	A	19780815	(197835)
CS 7608302	A	19790531	(197934)
CS 7802294	A	19790531	(197934)
CS 7802295	A	19790531	(197934)
SU 637087	A	19781229	(197937)
SU 671732	A	19790630	(198011)
IL 50977	A	19800229	(198013)
IL 57386	A	19800229	(198013)
IL 57387	A	19800229	(198013)
GB 1565854	A	19800423	(198017)
CA 1080696	A	19800701	(198029)
CA 1089446	A	19801111	(198050)
CA 1089447	A	19801111	(198050)
RO 69709	A	19800220	(198124)
RO 75963	A	19810228	(198131)
RO 75964	A	19810228	(198131)
CH 628348	A	19820226	(198211)
DE 2654647	C	19820624	(198226)
DE 2660667	A	19820701	(198227)
SE 8201701	A	19820705	(198229)
SE 8201702	A	19820705	(198229)
DE 2660667	C	19831103	(198345)
SU 1018585	A	19830515	(198412)
FI 8304617	A	19840330	(198420)
DK 8401339	A	19840229	(198502)
DK 8401341	A	19840229	(198502)
JP 61000351	B	19860108	(198605)
JP 61083189	A	19860426	(198623)
JP 62004393	B	19870130	(198708)
NL 187483	B	19910516	(199122)

PRIORITY APPLN. INFO: US 1975-642922 19751222  
INT. PATENT CLASSIF.: A61K031-54; C07C000-00; C07D501-60  
BASIC ABSTRACT:

BE 849415 A UPAB: 19930901

Crystalline anhydrous sodium cefamandole (I) (sodium 7-(D-2-hydroxy-2-phenyl-acetamido)-3-(1-methyl-1H-tetrazol-5-ylthio-methyl)-3-cephem-4-carboxylate) is new. The crystalline intermediates sodium cefamandole methanol solvate (II) and sodium cefamandole monohydrate (III) are also new. Stable crystalline sodium cefamandole is suitable for preparing parenteral formulations without the need for preparing the O-formyl derivative

Typically, pure cefamandole free acid in methanol is treated with sodium acetate in methanol to give the sodium cefamandole methanol

solvate. The methanol of solvation is displaced by exposure to moist air to give the crystalline monohydrate, or the solvate is dried at 45-50 degrees C to give the anhydrous salt.

FILE SEGMENT: CPI  
FIELD AVAILABILITY: AB  
MANUAL CODES: CPI: B02-C04

L54 ANSWER 10 OF 12 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN  
ACCESSION NUMBER: 1973-60818U [41] WPIX  
TITLE: Dried foods - by extracting moisture from frozen food with ethanol.  
DERWENT CLASS: D13  
PATENT ASSIGNEE(S): (UNIL) UNILEVER NV  
COUNTRY COUNT: 10  
PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG MAIN IPC
NL 7303765	A	(197341)	*	
BE 796930	A	(197341)		
DE 2312146	A	(197346)		
FR 2176829	A	(197401)		
ZA 7301770	A	19731219	(197411)	
CH 547061	A	19740329	(197417)	
GB 1379314	A	19750102	(197501)	
US 3925903	A	19751216	(197552)	
CA 989243	A	19760518	(197623)	
JP 51045659	B	19761203	(197701)	

PRIORITY APPLN. INFO: GB 1972-12615 19720317  
INT. PATENT CLASSIF.: A23B001-04; A23B003-04; A23B004-04; A23B007-12;  
A23L003-36; B01D012-00

## BASIC ABSTRACT:

NL 7303765 A UPAB: 19930831

Dried foods are made by immersing frozen food (especially at -20 degrees to -5 degrees C) in ethanol to remove water from the interior by dissolution in the ethanol, and maintaining the temperature of the food/ethanol mixture between

-20 degrees C and 0 degree C until at least half the moisture has been extracted from the food. Pref. the food (e.g. raw or cooked meat, fish, vegetables or fruit) is immersed in ethanol or ethanol/water (especially 'rectified spirit') in the frozen state and held at -20 degrees C-0 degree C until equilibrium is reached, generally at 20-30% moisture content. The food can then be drained and immersed in fresh ethanol for further drying as required. At the end of the ethanol treatment the food may be dried to remove residual ethanol in an air stream. The process gives dried foods with an open structure and non-shrunken appearance, which reconstitute as well as freeze-dried foods, but the process is less costly than freeze drying.

FILE SEGMENT: CPI  
FIELD AVAILABILITY: AB  
MANUAL CODES: CPI: D03-H01L

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ACCESSION NUMBER: 1999-0004077 PASCAL  
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TITLE (IN ENGLISH): Thermal behaviour of anhydrous, dihydrate and (2/1) ethanol forms of 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol  
AUTHOR: PERKKALAINEN P.; HALTTUNEN H.; PITKAENEN I.  
CORPORATE SOURCE: University of Jyvaeskylae, Department of Chemistry, P.O. Box 45, 40351 Jyvaeskylae, Finland  
SOURCE: Thermochimica acta, (1998), 320(1-2), 215-221, 7 refs. ISSN: 0040-6031 CODEN: THACAS  
DOCUMENT TYPE: Journal  
BIBLIOGRAPHIC LEVEL: Analytic  
COUNTRY: Netherlands  
LANGUAGE: English  
AVAILABILITY: INIST-14753, 354000071610200260

UP 20001101

AB The melting points of anhydrous 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol, 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol dihydrate and a new compound. 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol-ethanol (2/1) were determined using differential scanning calorimetry. The melting onset values were 169.2 (3), 104.3 (18) and 158.7 (9). respectively, and the melting peak values were 171.4 (5), 107.9 (15) and 160.1 (6), respectively. 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol dihydrate and 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol-ethanol (2/1) decompose to anhydrous form when heated at slow heating rates. According to TG-FTIR measurements, 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol-ethanol (2/1) lost its ethanol in the 110-190°C range, and 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol dihydrate lost its **crystal** water in the 60-210°C range. After **removal** of **ethanol** and **crystal** water, both decomposed in **air** totally as carbohydrates usually do, forming lower hydrocarbons with OH-groups, CO.sub.2 and H.sub.2O.

AB. . . heating rates. According to TG-FTIR measurements, 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol-ethanol (2/1) lost its ethanol in the 110-190°C range, and 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol dihydrate lost its **crystal** water in the 60-210°C range. After **removal** of **ethanol** and **crystal** water, both decomposed in **air** totally as carbohydrates usually do, forming lower hydrocarbons with OH-groups, CO.sub.2 and H.sub.2O.

L54 ANSWER 12 OF 12 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1994:377595 SCISEARCH  
THE GENUINE ARTICLE: NE102  
TITLE: SYNTHESIS, STRUCTURE, AND ELECTRONIC-PROPERTIES OF A MIXED-VALENT DODECAIRON OXO COMPLEX, A MODEL FOR THE BIOMINERALIZATION OF FERRITIN  
AUTHOR: TAFT K L (Reprint); PAPAETHYMIU G C; LIPPARD S J  
CORPORATE SOURCE: MIT, DEPT CHEM, CAMBRIDGE, MA 02139; MIT, FRANCIS BITTER NATL MAGNET LAB, CAMBRIDGE, MA 02139  
COUNTRY OF AUTHOR: USA

SOURCE: INORGANIC CHEMISTRY, (30 MAR 1994) Vol. 33, No. 7, pp. 1510-1520.  
 ISSN: 0020-1669.  
 PUBLISHER: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.  
 DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: PHYS  
 LANGUAGE: English  
 REFERENCE COUNT: 109  
 ENTRY DATE: Entered STN: 1994  
 Last Updated on STN: 1994

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

ED Entered STN: 1994

Last Updated on STN: 1994

AB The mixed-valent polyiron oxo complex  $[\text{FeIII}_4\text{FeII}_2(\text{O})_2(\text{OMe})_{18}(\text{OAc})_6(\text{MeOH})_{4.67}]$  (1) was prepared through the controlled oxidation of a methanol solution of ferrous acetate and lithium methoxide. The structure of 1, revealed in a single-crystal X-ray diffraction experiment, consists of a face-centered cubic array of oxygen atoms with iron(II) and iron(III) ions in the octahedral interstices. Two  $\mu_6$ -OXO ligands, to which ten of the twelve iron atoms are coordinated, form the core of the structure. The iron atoms have distorted octahedral coordination geometries with oxo, methoxide, methanol, and acetate ligands. From an analysis of the Fe-O bond lengths and from charge considerations, four of the twelve iron atoms were assigned as ferric ions. Crystals of 1 are air-sensitive and lose coordinated methanol when removed from the reaction solution. The mixed-valent nature of 1 was further characterized by electronic spectroscopy. There is a broad feature at 694 nm with shoulders at 900 and 1250 nm attributable to iron(II) ligand field and intervalence charge transfer transitions. The iron atoms of 1 exhibit overall antiferromagnetic exchange coupling, with  $\chi(T)$  decreasing from 40.3 emu mol<sup>-1</sup> K at 300 K to 7.04 emu mol<sup>-1</sup> K at 2.5 K. The calculated spin-only  $\chi(T)$  value for four iron(III) ions with  $g = 2.0$  and eight iron(II) ions with  $g = 2.2$  is 46.5 emu mol<sup>-1</sup> K. No saturation was observed in a high-field magnetization study of 1 at 1.4 K, the maximum value attained being 18.2  $\mu_B$  at 20.0 T. Mossbauer spectral studies of 1 at 20 K revealed three distinguishable quadrupolar doublets, one with spectral parameters characteristic of iron(III) ( $\delta = 0.47$  and  $\Delta E_Q = 0.74$  mm s<sup>-1</sup>) and two quadrupolar resonances arising from iron(II) ions ( $\delta = 1.28$  and  $1.29$  and  $\Delta E_Q = 2.02$  and  $3.29$  mm s<sup>-1</sup>, respectively). The relative absorption areas for the three spectral features were consistent with the foregoing assignment of oxidation states. No valence delocalization was observed for 1 up to 250 K. Below 20 K, intermediate relaxation phenomena were evident for all three quadrupole doublets. The temperature dependence of the Mossbauer spectra was consistent with superparamagnetism, such as that observed for the mineral core of the iron storage protein ferritin. The exact source of the slow spin relaxation in 1 has proved difficult to identify unequivocally, however. The method used to prepare 1, oxidation of iron(II), and its structure, a Lattice array of oxygen and iron atoms, compare favorably with the biomineralization process and structure of the mineral core in ferritin, respectively. Crystallographic data for 1 at 185 K are as follows: P1BAR,  $a = 11.868(2)$  angstrom,  $b = 13.309(2)$  angstrom,  $c = 10.437(2)$  angstrom,  $\alpha = 100.96(2)$  degrees,  $\beta = 95.30(2)$  degrees,  $\gamma = 80.07(1)$  degrees,  $V = 1591.2(5)$  angstrom<sup>3</sup>,  $Z = 1$ ,  $M(r) = 1764.67$ ,  $\rho(\text{calc}) = 1.841$  g cm<sup>-3</sup>. For 4709 unique observed reflections collected at 185 K with  $F_2 > 3\sigma(F_2)$ ,  $R = 0.054$  and  $R(w) = 0.071$ .

AB of the Fe-O bond lengths and from charge considerations, four of the twelve iron atoms were assigned as ferric ions. Crystals of 1 are air-sensitive and lose coordinated methanol

when removed from the reaction solution. The mixed-valent nature of 1 was further characterized by electronic spectroscopy. There is a broad feature. . . .

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